

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX041118\
 Data File : VX000788.D
 Acq On : 11 Apr 2018 19:20
 Operator : JC/MD
 Sample : J2302-03 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RT4235-RT3407

Quant Time: Apr 12 07:08:13 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 10 15:49:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	310186	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	427723	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	401845	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	242534	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	156406	39.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.98%	
35) Dibromofluoromethane	5.51	113	130862	39.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.42%	
50) Toluene-d8	8.72	98	493281	40.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.40%	
62) 4-Bromofluorobenzene	11.15	95	202265	39.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.68%	

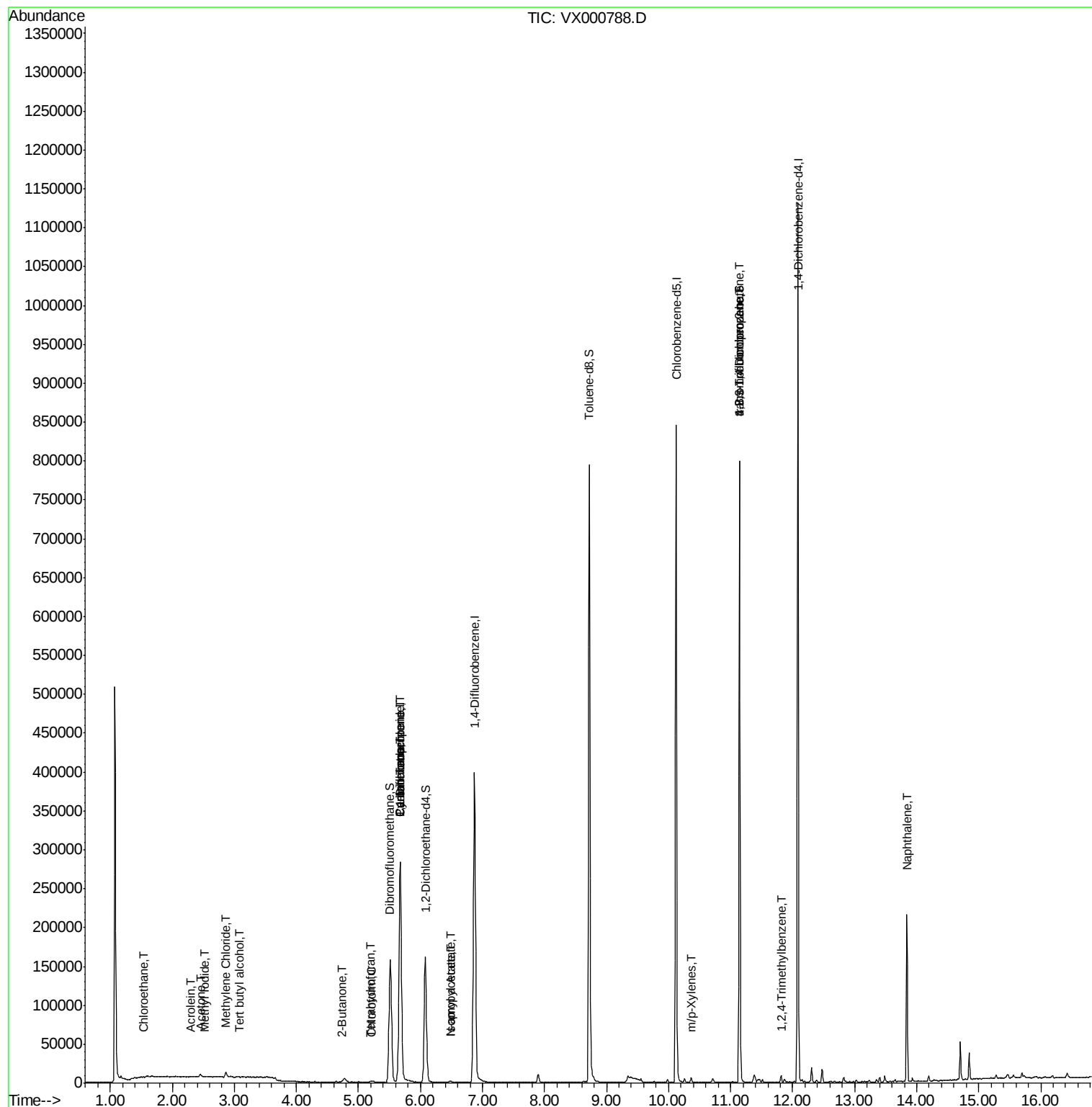
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	185	Below Cal	#	47
6) Chloroethane	1.54	64	2117	1.03	ug/l #	64
10) Methyl Iodide	2.53	142	241	8.32	ug/l #	64
11) Tert butyl alcohol	3.08	59	210	0.30	ug/l #	1
13) Acrolein	2.29	56	218	0.65	ug/l #	54
16) Acetone	2.45	43	3939	2.92	ug/l	90
20) Methylene Chloride	2.87	84	3123	1.00	ug/l	87
25) 2-Butanone	4.73	43	758	0.34	ug/l	97
29) Tetrahydrofuran	5.19	42	506	0.36	ug/l #	53
30) Chloroform	5.22	83	1698	0.30	ug/l #	75
31) Cyclohexane	5.68	56	4890	0.95	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	18278	3.88	ug/l #	49
38) Carbon Tetrachloride	5.67	117	25879	4.91	ug/l #	14
43) Isopropyl Acetate	6.49	43	2375	0.30	ug/l #	94
68) m/p-Xylenes	10.37	106	1539	0.23	ug/l	90
74) N-amyl acetate	6.49	43	2375	0.34	ug/l #	95
76) 1,2,3-Trichloropropane	11.14	75	98803	23.62	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	98803	64.98	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.82	105	3899	0.29	ug/l	97
95) Naphthalene	13.84	128	131331	7.44	ug/l	99

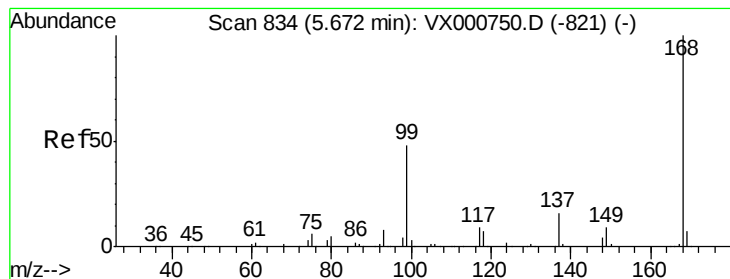
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX000788.D

Acq: 11 Apr 2018 19:20

Instrument :

MSVOA_X

ClientSampleId :

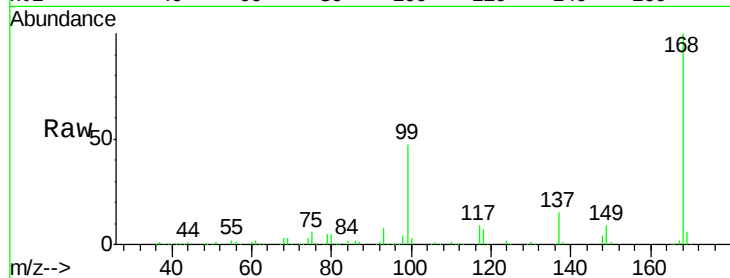
RT4235-RT3407

Tgt Ion:168 Resp: 310186

Ion Ratio Lower Upper

168 100

99 47.4 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

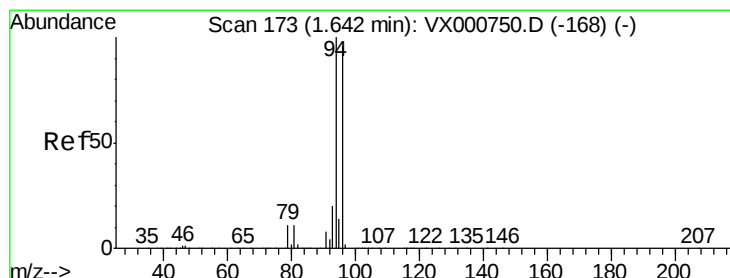
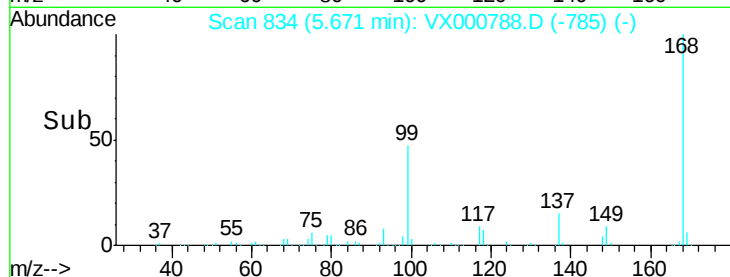
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX000788.D

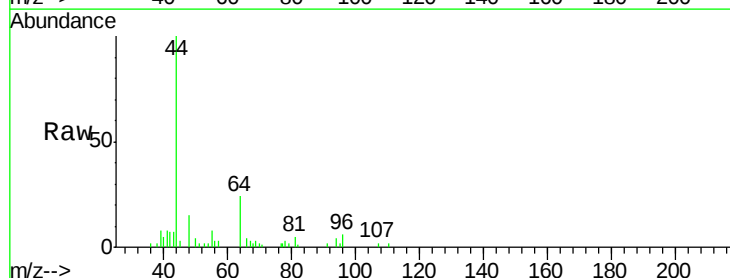
Acq: 11 Apr 2018 19:20

Tgt Ion: 94 Resp: 185

Ion Ratio Lower Upper

94 100

96 148.5 77.0 115.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

200

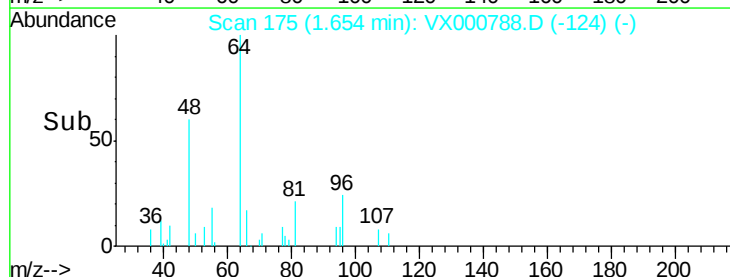
150

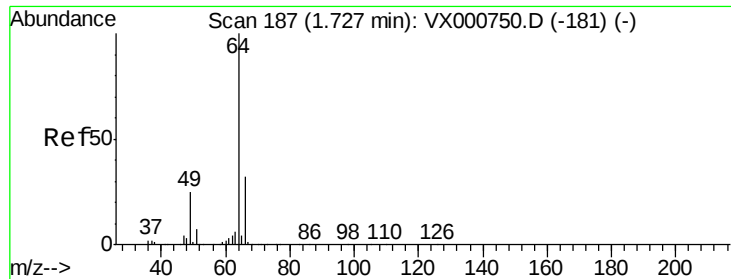
100

50

0

Time-->





#6

Chloroethane

Concen: 1.03 ug/l

RT: 1.54 min Scan# 156

Delta R.T. -0.19 min

Lab File: VX000788.D

Acq: 11 Apr 2018 19:20

Instrument :

MSVOA_X

ClientSampleId :

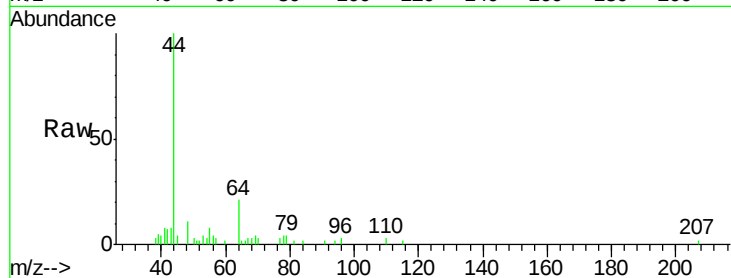
RT4235-RT3407

Tgt Ion: 64 Resp: 2117

Ion Ratio Lower Upper

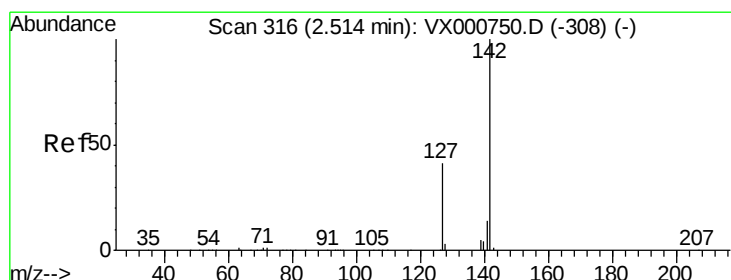
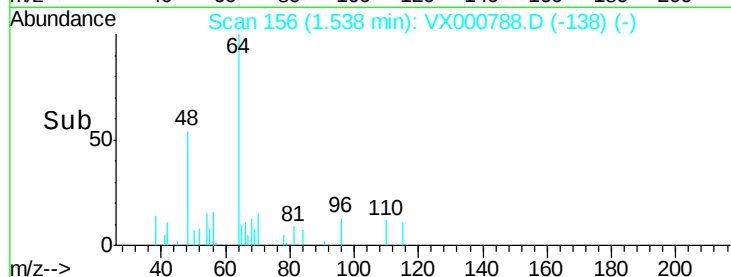
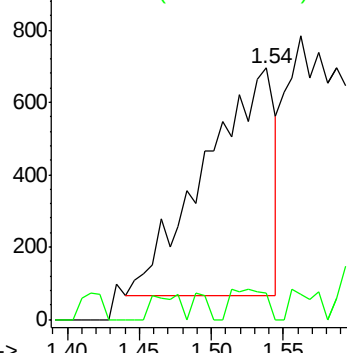
64 100

66 11.6 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 8.32 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX000788.D

Acq: 11 Apr 2018 19:20

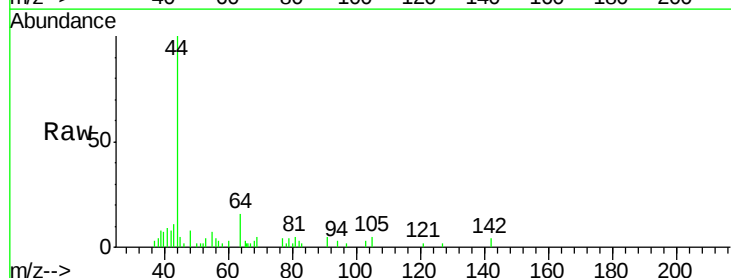
Tgt Ion: 142 Resp: 241

Ion Ratio Lower Upper

142 100

127 18.3 32.6 49.0#

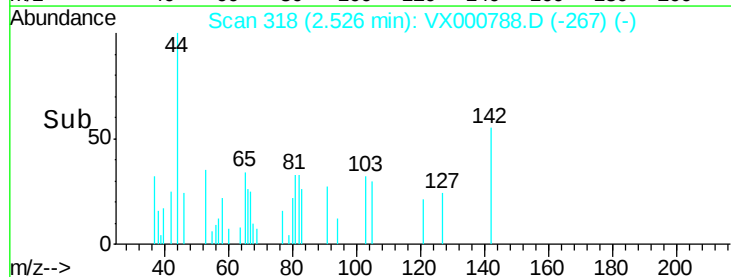
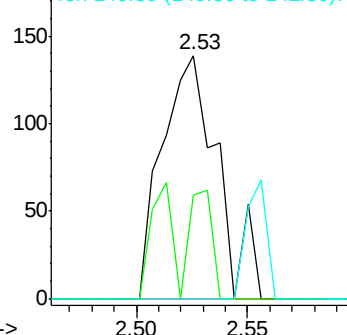
141 0.0 11.5 17.3#

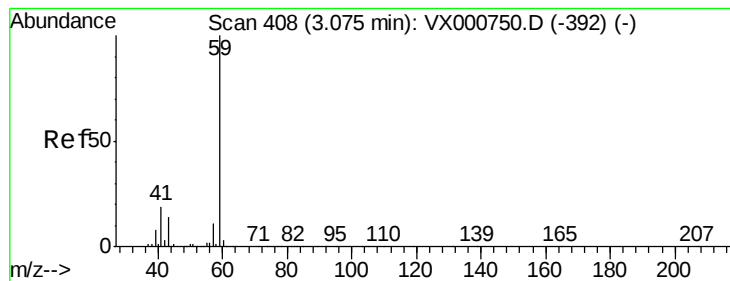


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 0.30 ug/l

RT: 3.08 min Scan# 409

Delta R.T. 0.01 min

Lab File: VX000788.D

Acq: 11 Apr 2018 19:20

Instrument :

MSVOA_X

ClientSampleId :

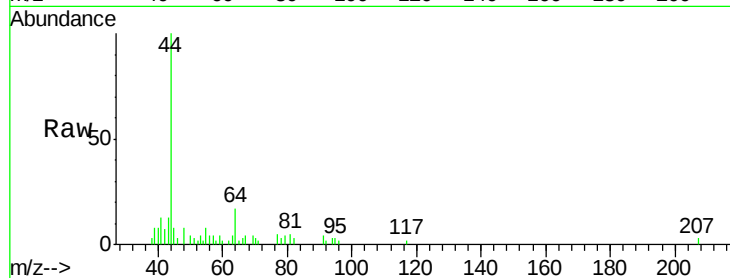
RT4235-RT3407

Tgt Ion: 59 Resp: 210

Ion Ratio Lower Upper

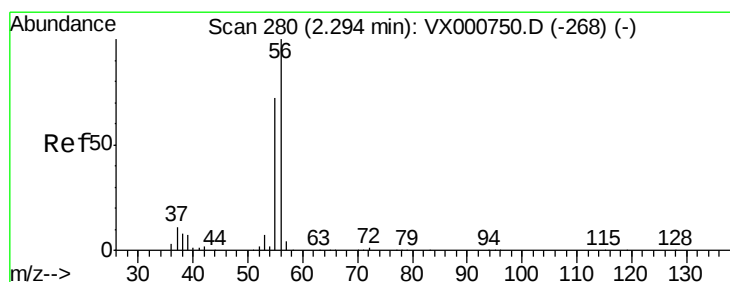
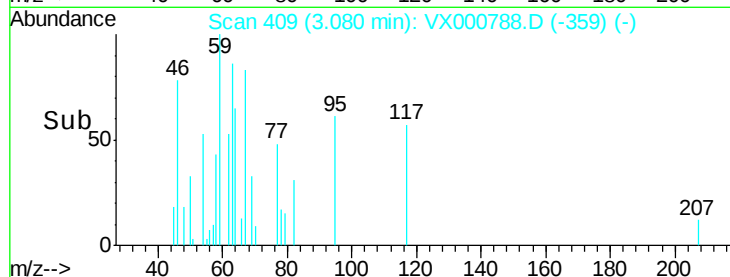
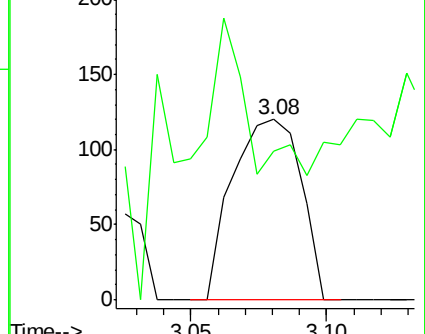
59 100

57 167.6 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#13

Acrolein

Concen: 0.65 ug/l

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX000788.D

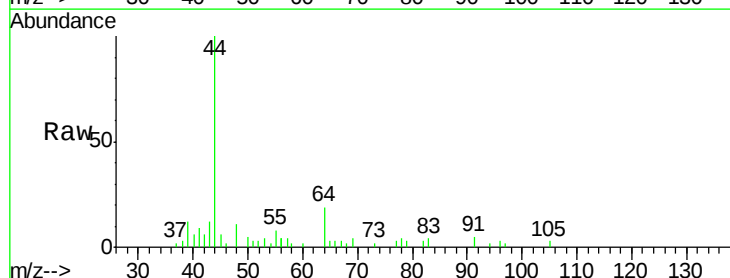
Acq: 11 Apr 2018 19:20

Tgt Ion: 56 Resp: 218

Ion Ratio Lower Upper

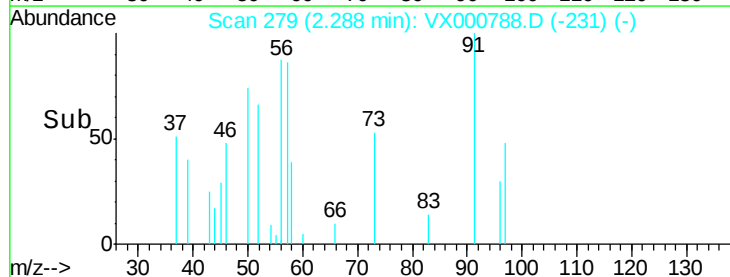
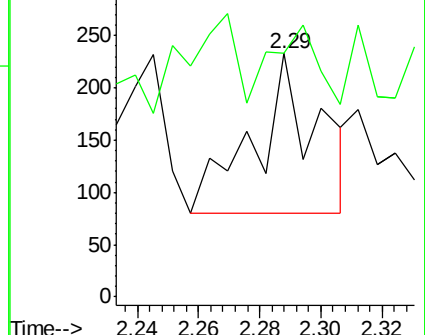
56 100

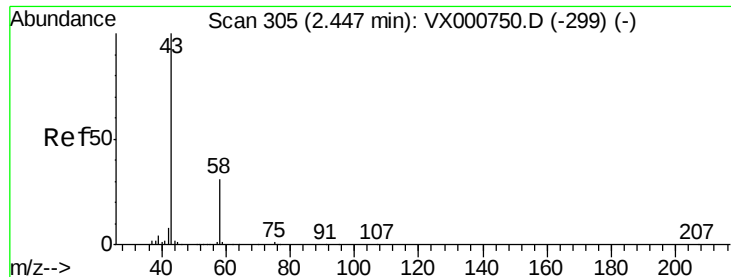
55 34.9 58.7 88.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 2.92 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX000788.D

Acq: 11 Apr 2018 19:20

Instrument :

MSVOA_X

ClientSampleId :

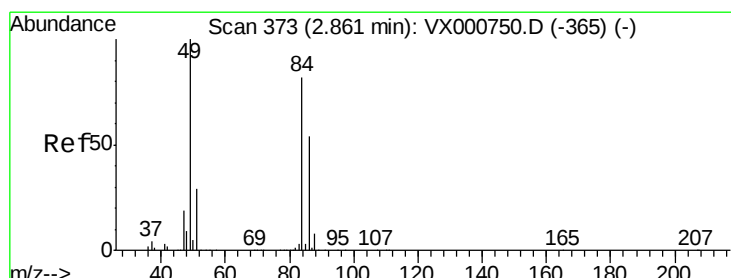
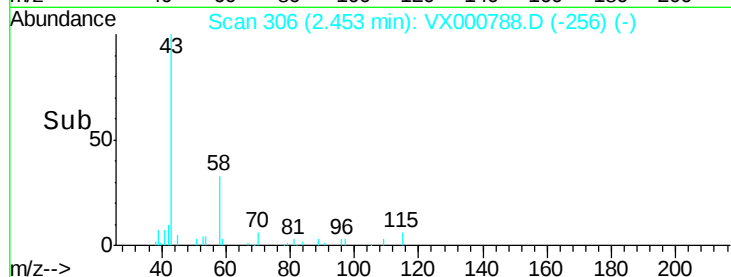
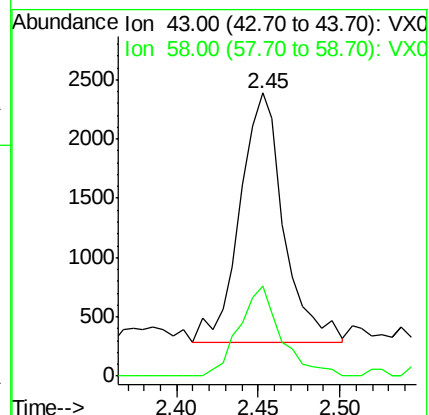
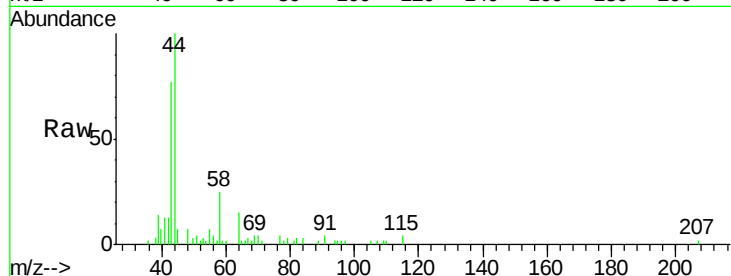
RT4235-RT3407

Tgt Ion: 43 Resp: 3939

Ion Ratio Lower Upper

43 100

58 36.1 24.6 37.0



#20

Methylene Chloride

Concen: 1.00 ug/l

RT: 2.87 min Scan# 374

Delta R.T. 0.01 min

Lab File: VX000788.D

Acq: 11 Apr 2018 19:20

Tgt Ion: 84 Resp: 3123

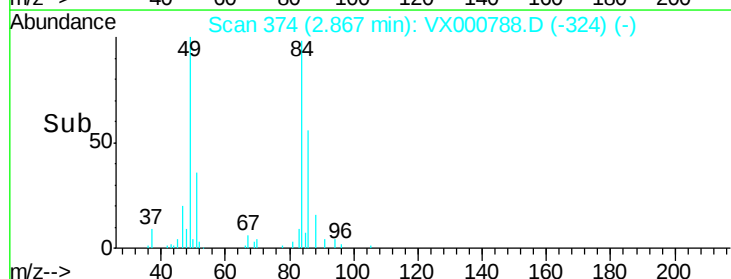
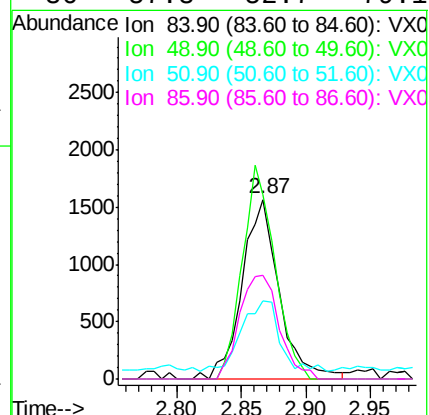
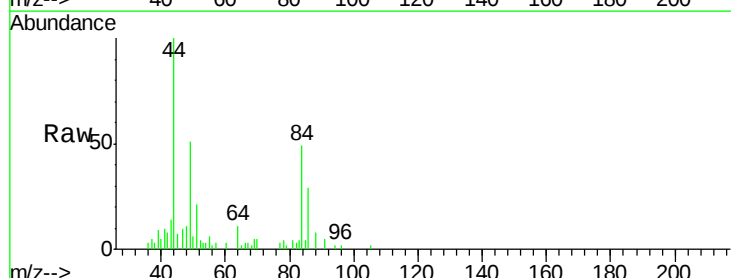
Ion Ratio Lower Upper

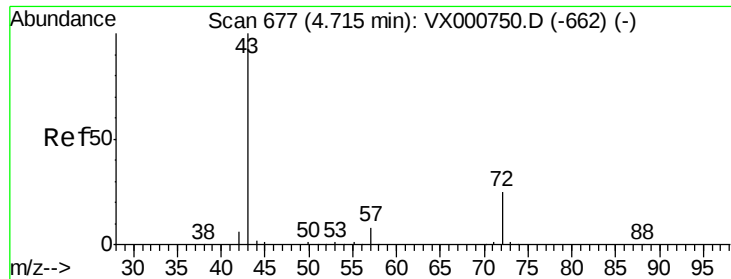
84 100

49 102.4 98.1 147.1

51 37.0 28.9 43.3

86 57.8 52.7 79.1





#25

2-Butanone

Concen: 0.34 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.01 min

Lab File: VX000788.D

Acq: 11 Apr 2018 19:20

Instrument :

MSVOA_X

ClientSampleId :

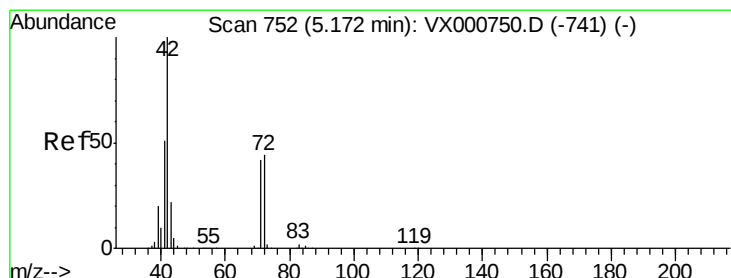
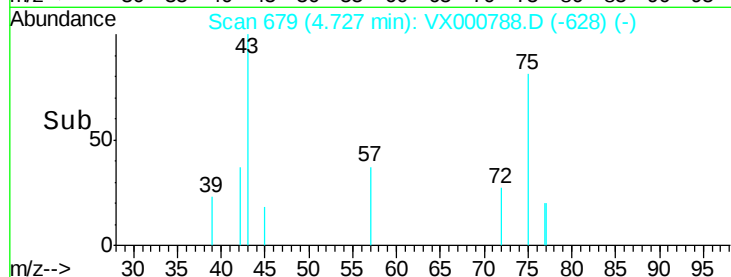
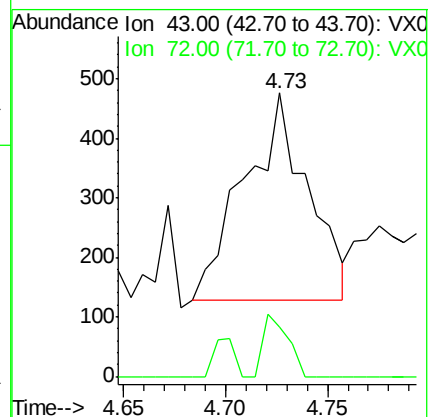
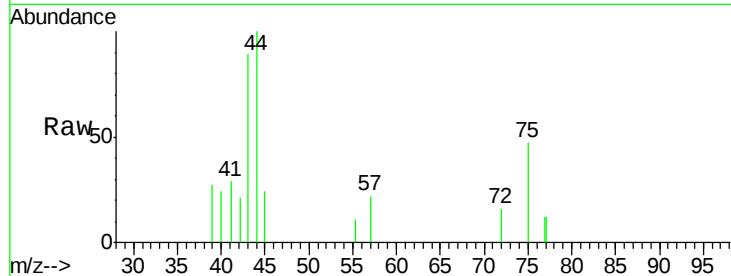
RT4235-RT3407

Tgt Ion: 43 Resp: 758

Ion Ratio Lower Upper

43 100

72 23.8 20.3 30.5



#29

Tetrahydrofuran

Concen: 0.36 ug/l

RT: 5.19 min Scan# 755

Delta R.T. 0.02 min

Lab File: VX000788.D

Acq: 11 Apr 2018 19:20

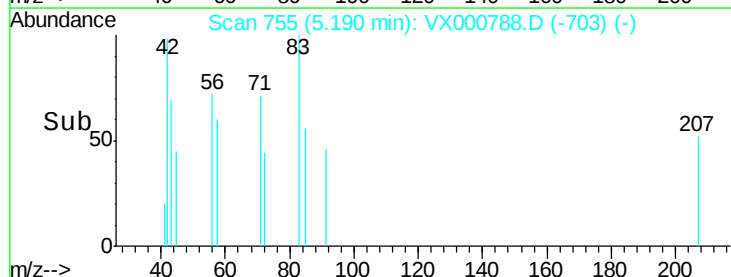
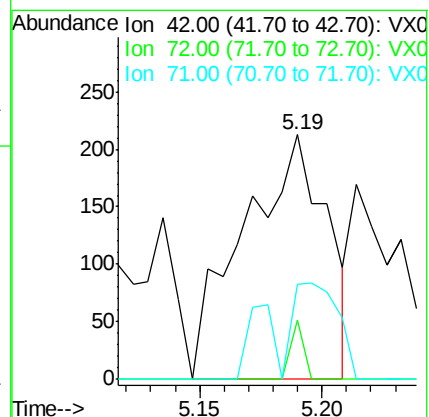
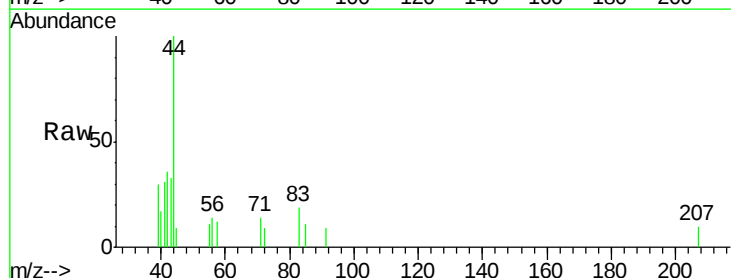
Tgt Ion: 42 Resp: 506

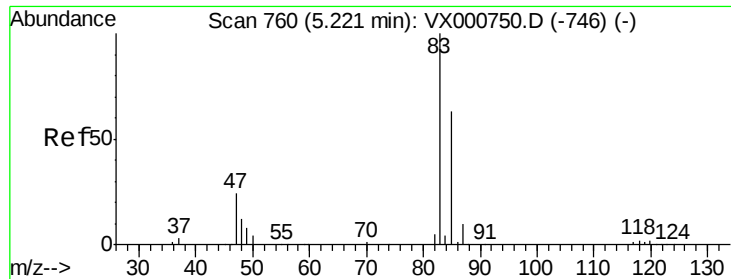
Ion Ratio Lower Upper

42 100

72 3.8 35.1 52.7#

71 21.3 32.8 49.2#

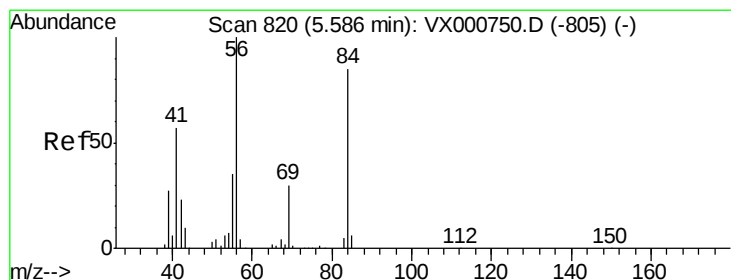
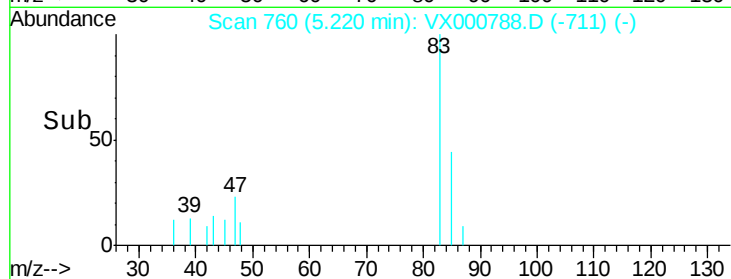
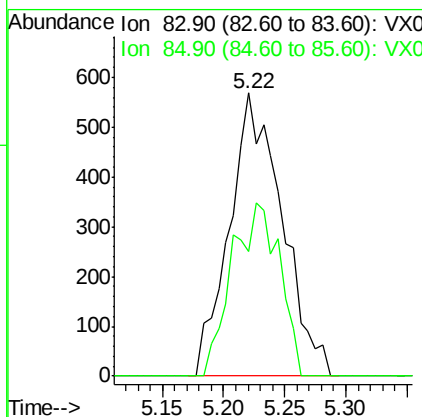
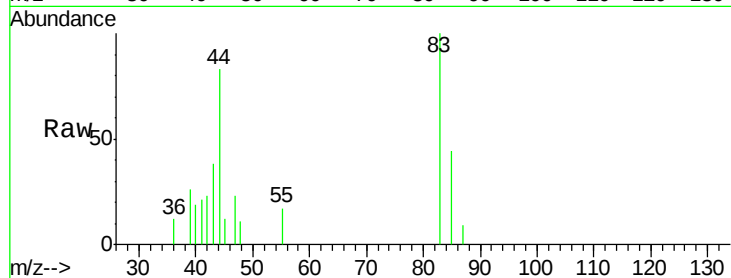




#30
Chloroform
Concen: 0.30 ug/l
RT: 5.22 min Scan# 760
Delta R.T. -0.00 min
Lab File: VX000788.D
Acq: 11 Apr 2018 19:20

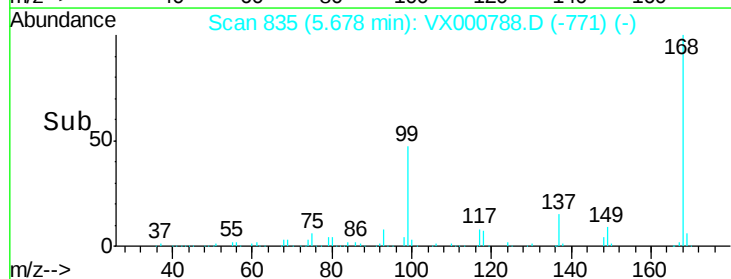
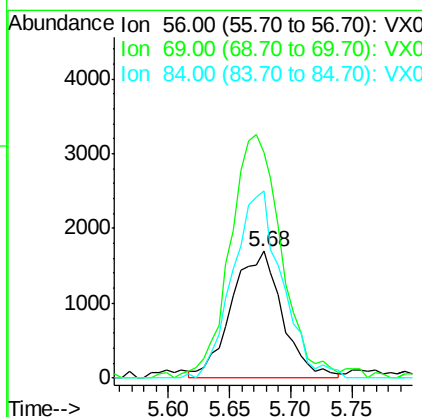
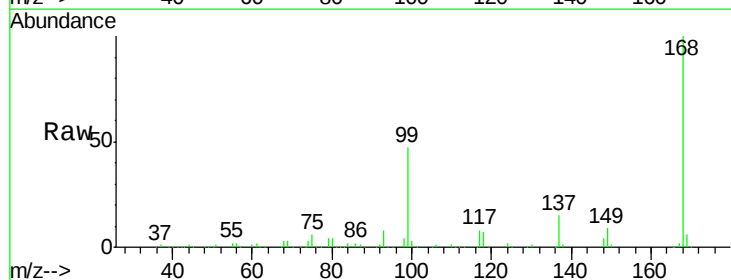
Instrument :
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RT4235-RT3407

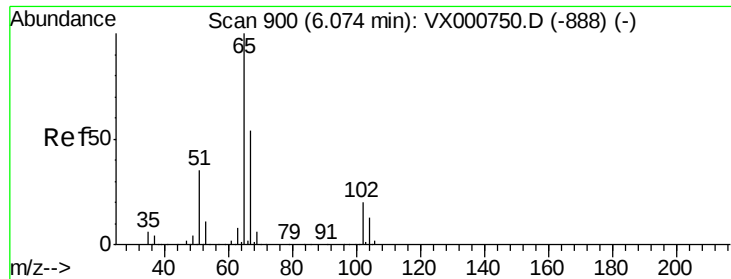
Tgt Ion: 83 Resp: 1698
Ion Ratio Lower Upper
83 100
85 44.0 50.7 76.1#



#31
Cyclohexane
Concen: 0.95 ug/l
RT: 5.68 min Scan# 835
Delta R.T. 0.09 min
Lab File: VX000788.D
Acq: 11 Apr 2018 19:20

Tgt Ion: 56 Resp: 4890
Ion Ratio Lower Upper
56 100
69 180.6 24.2 36.4#
84 149.7 67.6 101.4#





#33

1,2-Dichloroethane-d4

Concen: 39.99 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX000788.D

Acq: 11 Apr 2018 19:20

Instrument :

MSVOA_X

ClientSampleId :

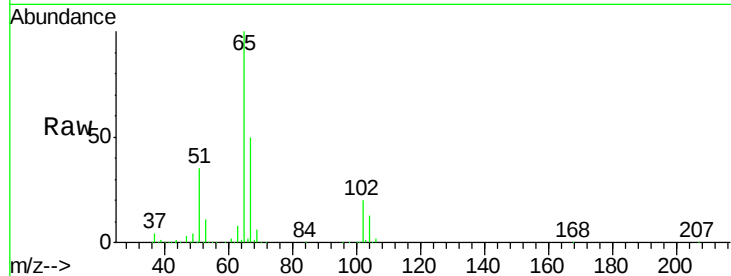
RT4235-RT3407

Tgt Ion: 65 Resp: 156406

Ion Ratio Lower Upper

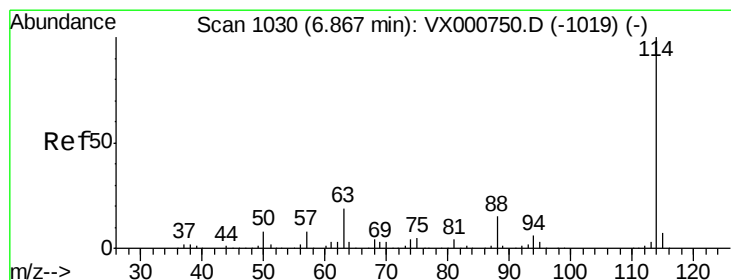
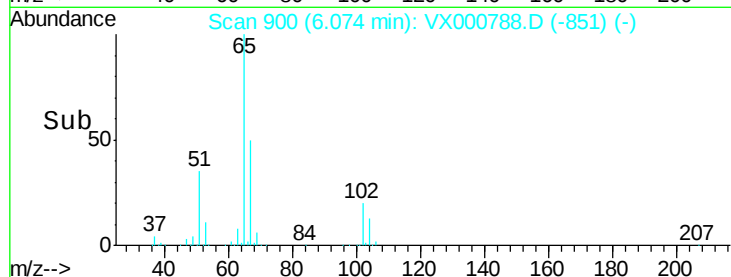
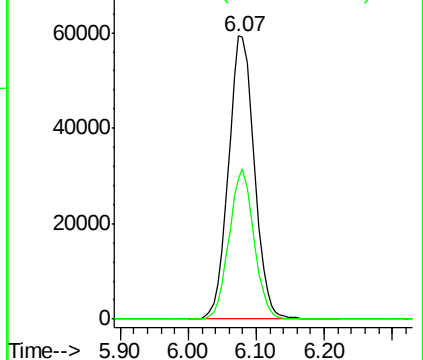
65 100

67 50.9 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VX000788.D

Acq: 11 Apr 2018 19:20

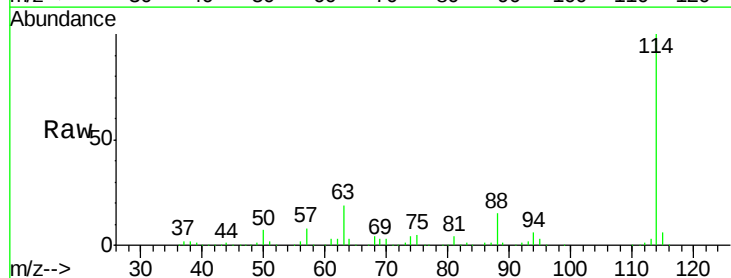
Tgt Ion: 114 Resp: 427723

Ion Ratio Lower Upper

114 100

63 19.4 0.0 38.4

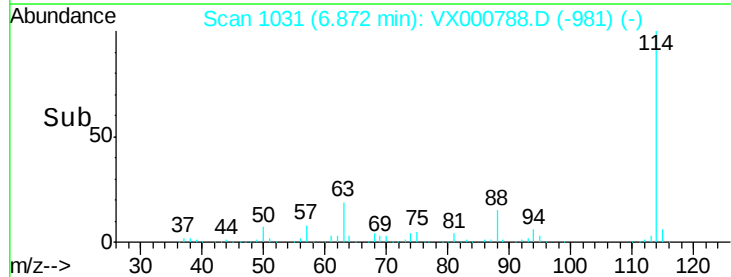
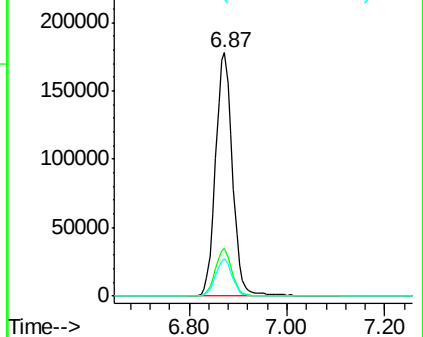
88 15.2 0.0 31.0

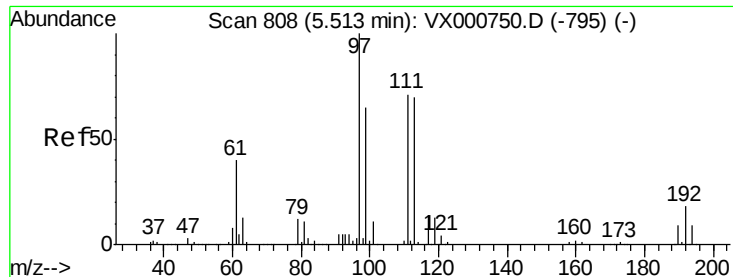


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 39.71 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000788.D

Acq: 11 Apr 2018 19:20

Instrument :

MSVOA_X

ClientSampleId :

RT4235-RT3407

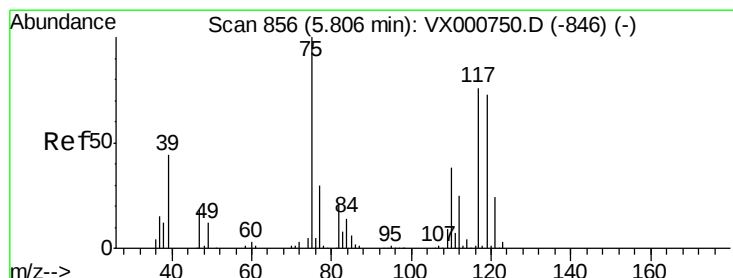
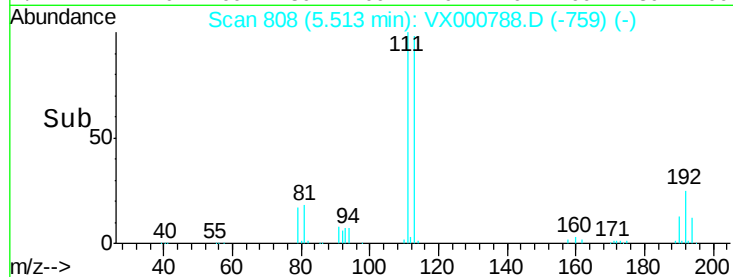
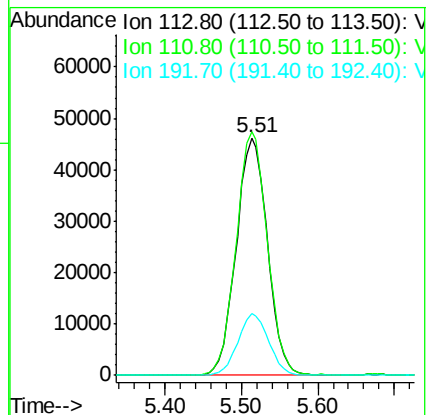
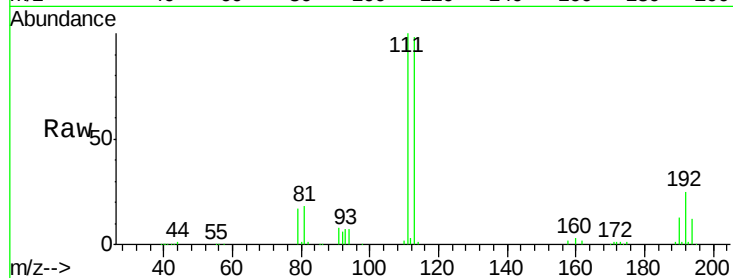
Tgt Ion:113 Resp: 130862

Ion Ratio Lower Upper

113 100

111 102.0 81.5 122.3

192 25.6 20.4 30.6



#36

1,1-Dichloropropene

Concen: 3.88 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX000788.D

Acq: 11 Apr 2018 19:20

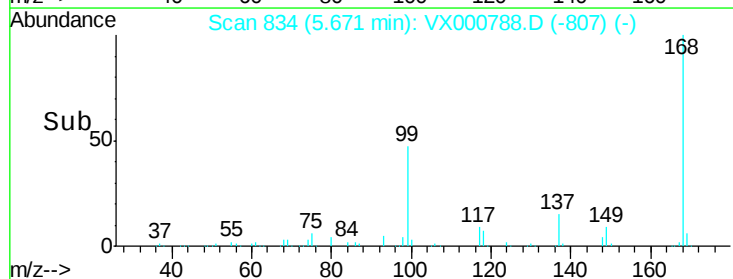
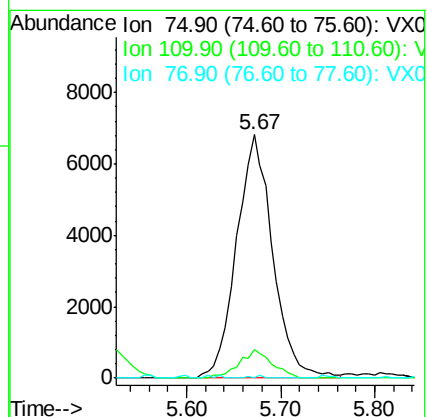
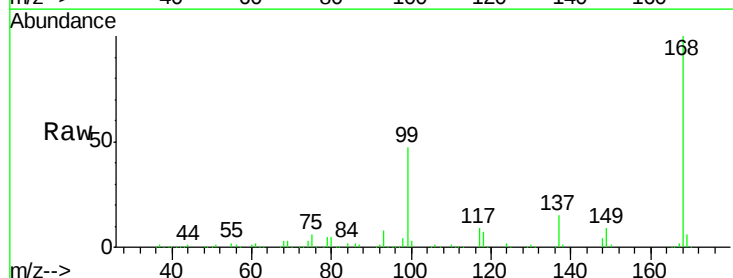
Tgt Ion: 75 Resp: 18278

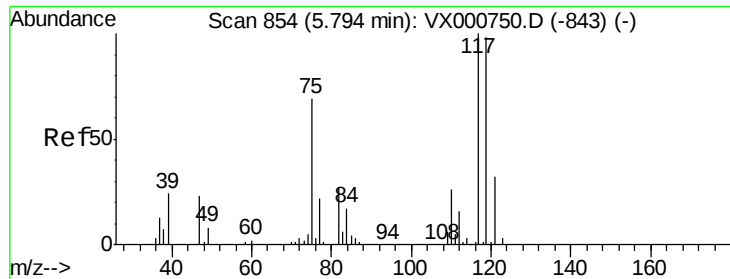
Ion Ratio Lower Upper

75 100

110 10.5 19.2 57.6#

77 0.1 25.4 38.2#





#38

Carbon Tetrachloride

Concen: 4.91 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX000788.D

Acq: 11 Apr 2018 19:20

Instrument :

MSVOA_X

ClientSampleId :

RT4235-RT3407

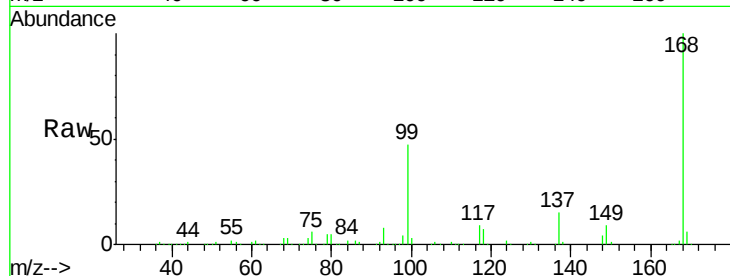
Tgt Ion:117 Resp: 25879

Ion Ratio Lower Upper

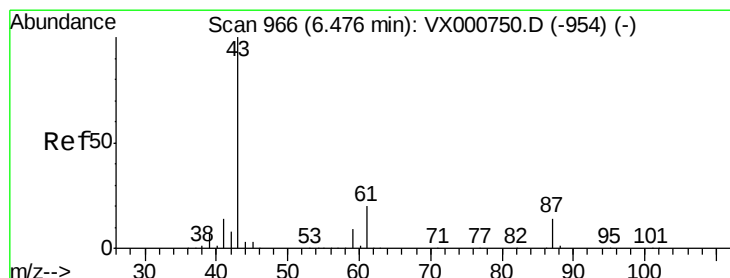
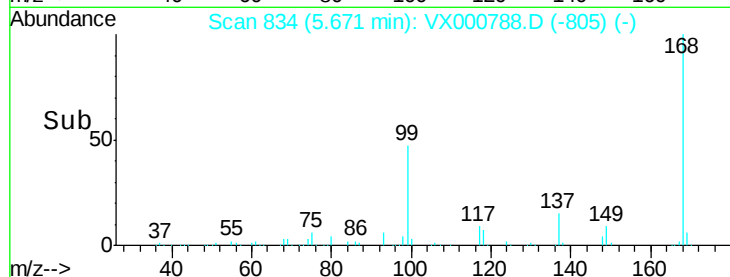
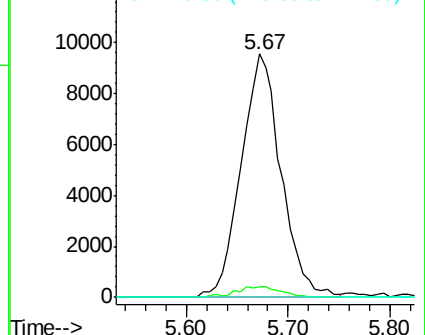
117 100

119 4.2 78.4 117.6#

121 0.0 25.4 38.0#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 0.30 ug/l

RT: 6.49 min Scan# 968

Delta R.T. 0.01 min

Lab File: VX000788.D

Acq: 11 Apr 2018 19:20

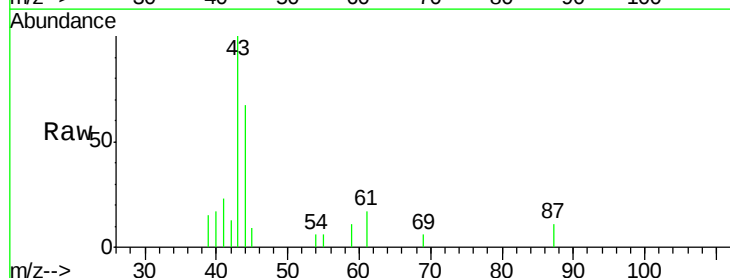
Tgt Ion: 43 Resp: 2375

Ion Ratio Lower Upper

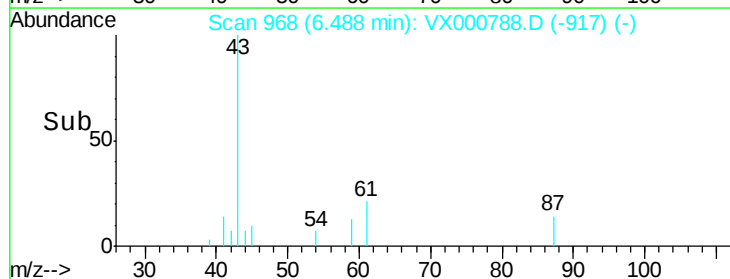
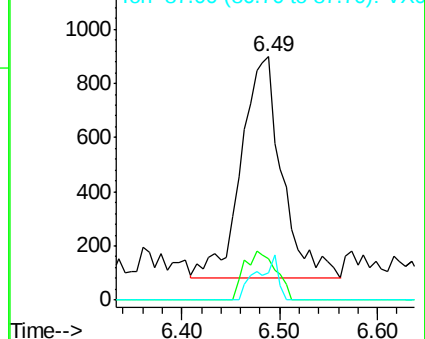
43 100

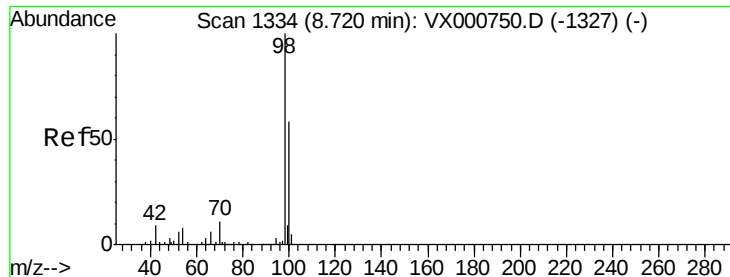
61 17.3 15.6 23.4

87 10.3 10.7 16.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0





#50

Toluene-d8

Concen: 40.20 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX000788.D

Acq: 11 Apr 2018 19:20

Instrument :

MSVOA_X

ClientSampleId :

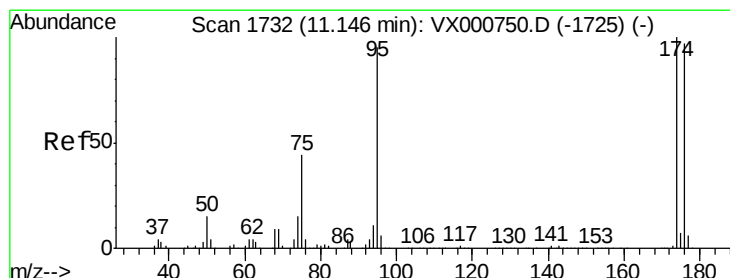
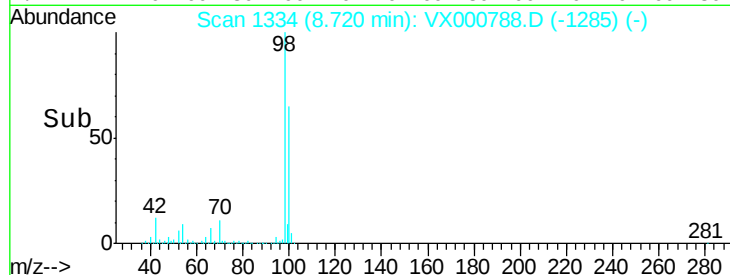
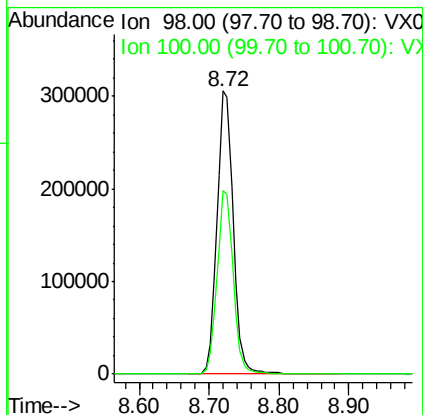
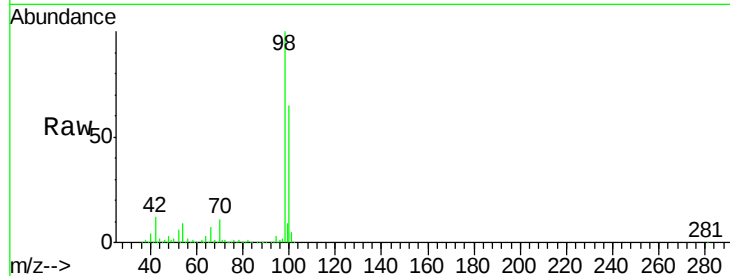
RT4235-RT3407

Tgt Ion: 98 Resp: 493281

Ion Ratio Lower Upper

98 100

100 64.6 52.6 79.0



#62

4-Bromofluorobenzene

Concen: 39.84 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VX000788.D

Acq: 11 Apr 2018 19:20

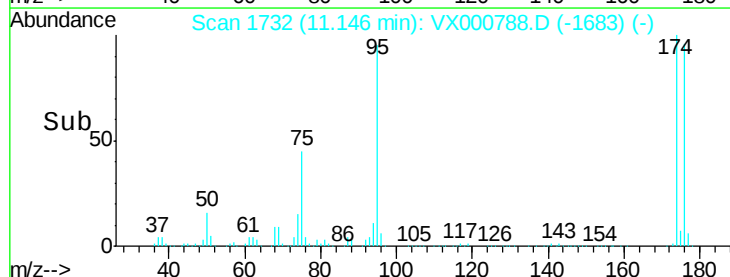
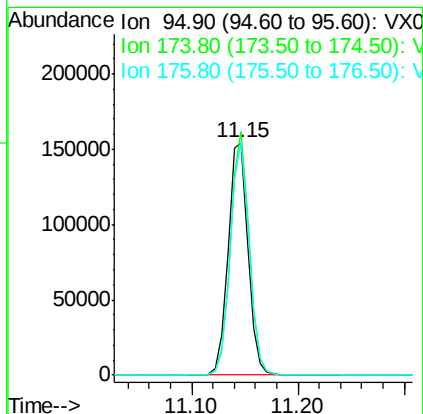
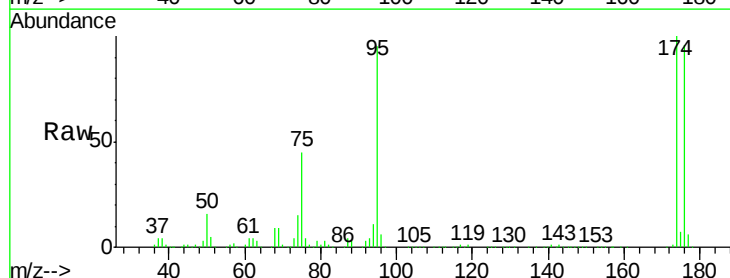
Tgt Ion: 95 Resp: 202265

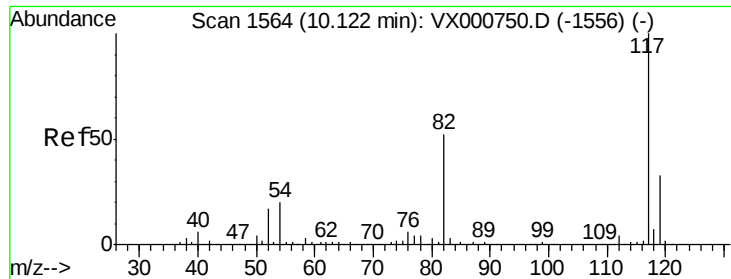
Ion Ratio Lower Upper

95 100

174 98.7 0.0 198.4

176 95.3 0.0 194.4

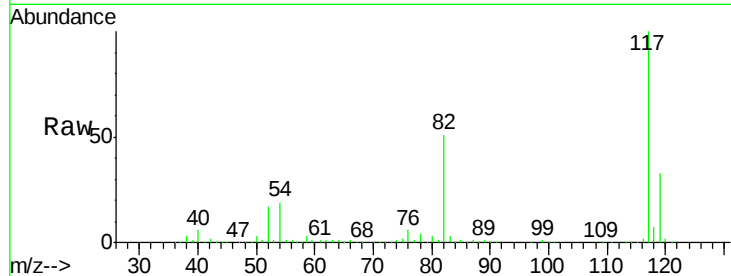




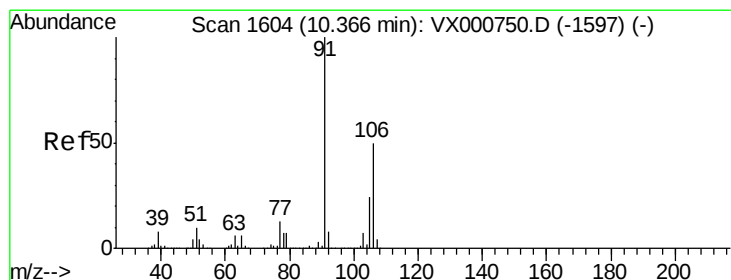
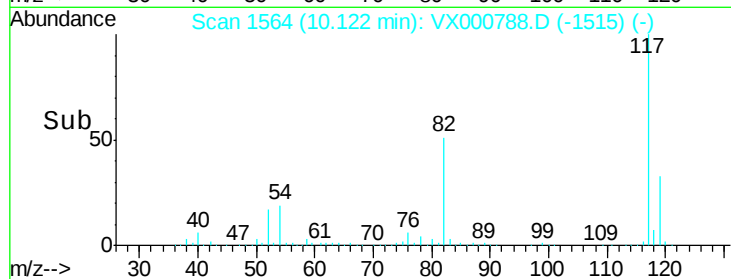
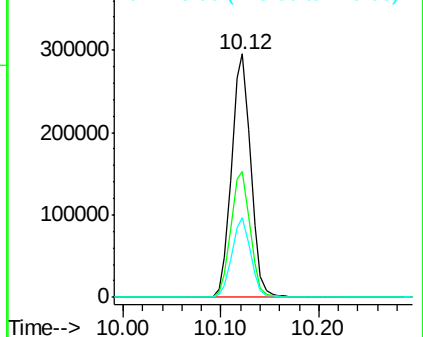
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000788.D
Acq: 11 Apr 2018 19:20

Instrument :
MSVOA_X
ClientSampleId :
RT4235-RT3407

Tgt Ion:117 Resp: 401845
Ion Ratio Lower Upper
117 100
82 51.5 41.9 62.9
119 32.8 26.0 39.0

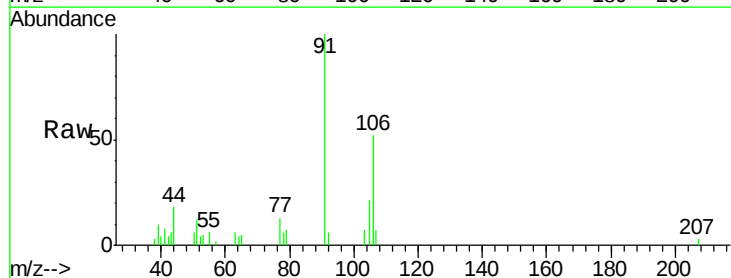


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

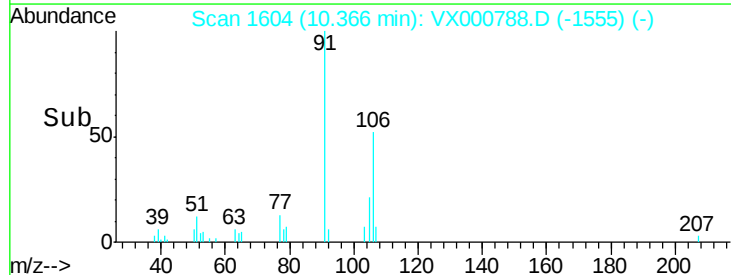
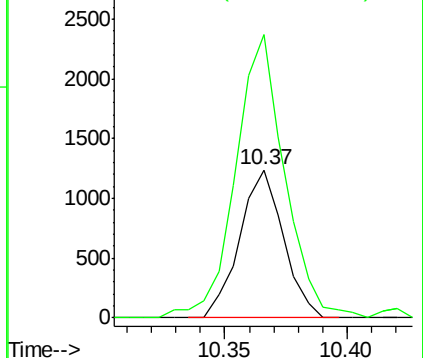


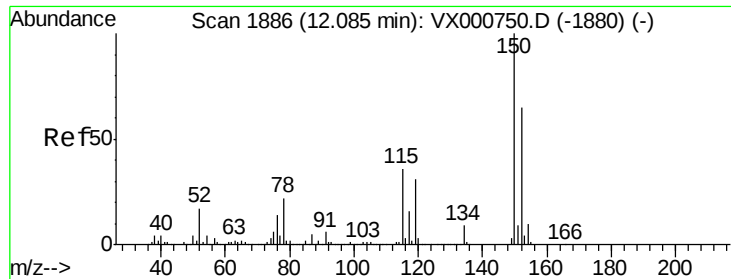
#68
m/p-Xylenes
Concen: 0.23 ug/l
RT: 10.37 min Scan# 1604
Delta R.T. -0.00 min
Lab File: VX000788.D
Acq: 11 Apr 2018 19:20

Tgt Ion:106 Resp: 1539
Ion Ratio Lower Upper
106 100
91 214.8 159.3 238.9



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000788.D

Acq: 11 Apr 2018 19:20

Instrument :

MSVOA_X

ClientSampleId :

RT4235-RT3407

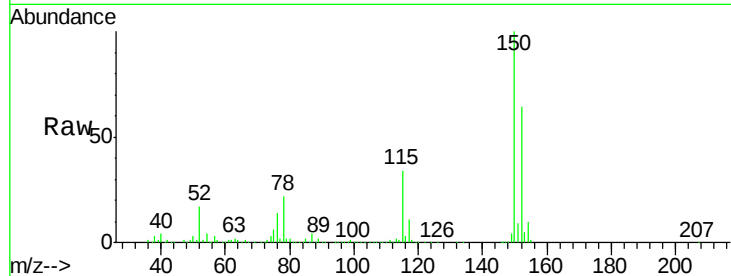
Tgt Ion:152 Resp: 242534

Ion Ratio Lower Upper

152 100

115 52.9 37.9 113.7

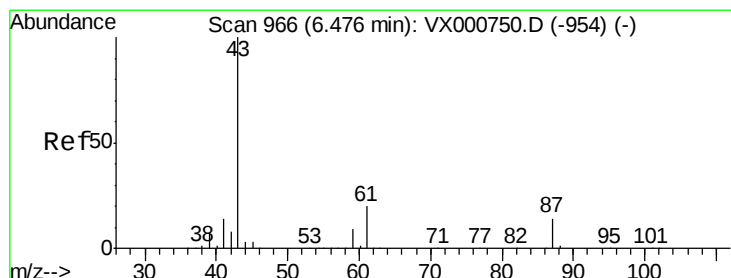
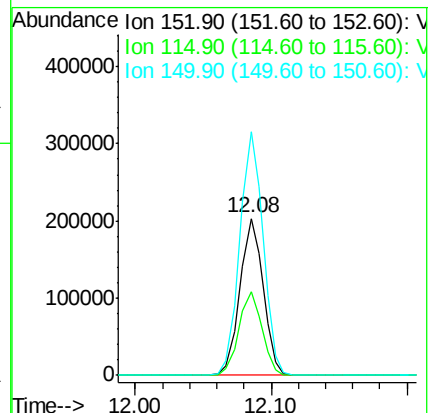
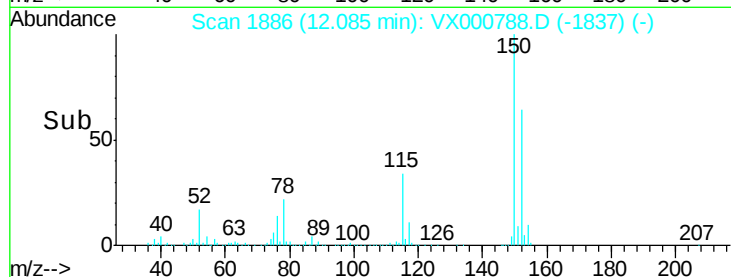
150 155.8 0.0 348.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.34 ug/l

RT: 6.49 min Scan# 968

Delta R.T. 0.01 min

Lab File: VX000788.D

Acq: 11 Apr 2018 19:20

Tgt Ion: 43 Resp: 2375

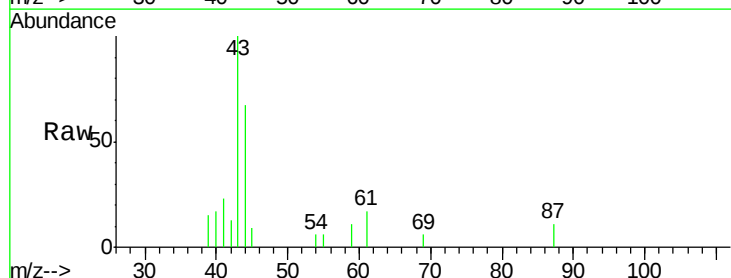
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0

61 17.3 15.6 23.4

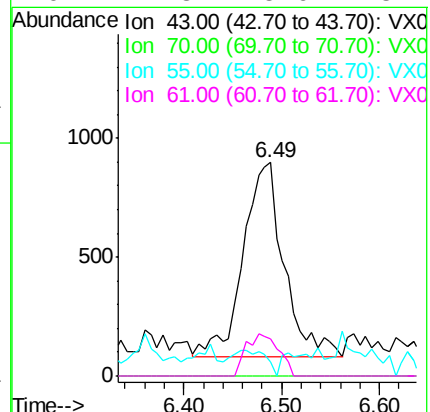
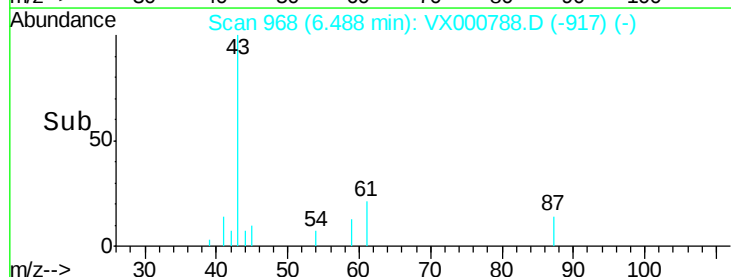


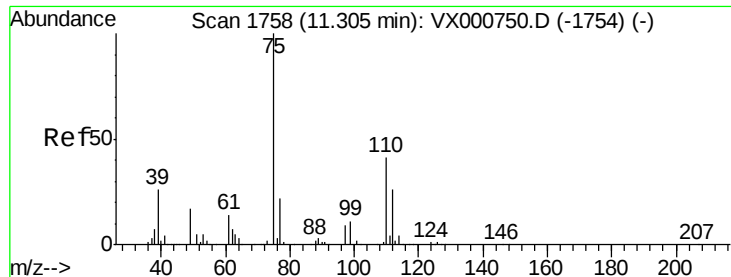
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

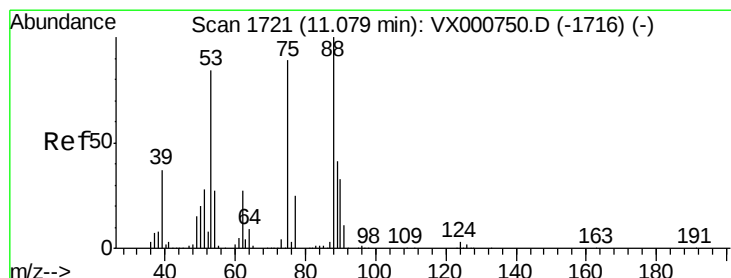
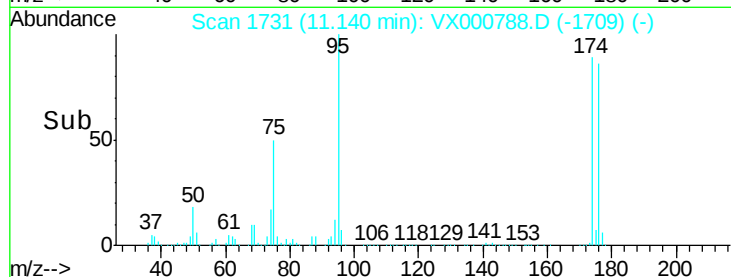
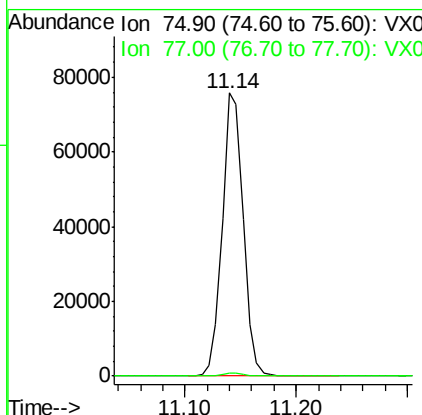
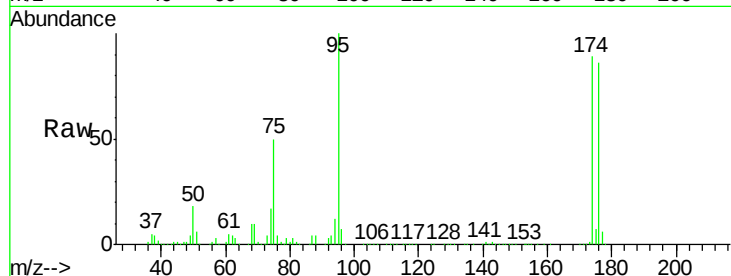




#76
 1,2,3-Trichloropropane
 Concen: 23.62 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX000788.D
 Acq: 11 Apr 2018 19:20

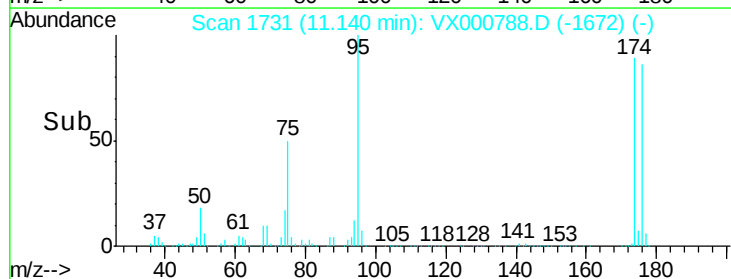
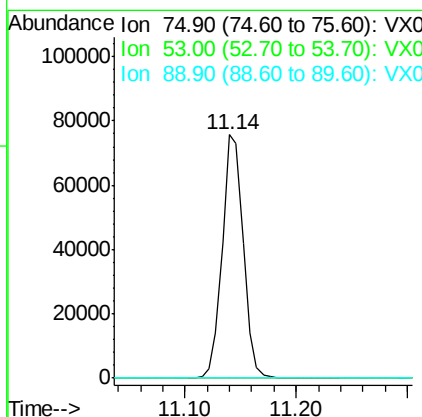
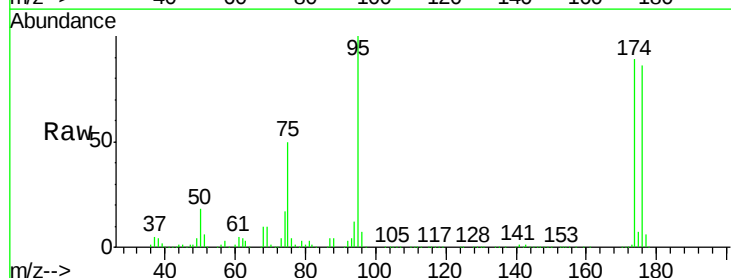
Instrument :
 MSVOA_X
 ClientSampleId :
 RT4235-RT3407

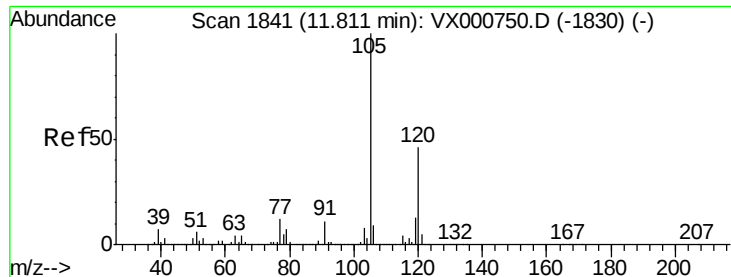
Tgt Ion: 75 Resp: 98803
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.5 61.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.98 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX000788.D
 Acq: 11 Apr 2018 19:20

Tgt Ion: 75 Resp: 98803
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.4 113.0#
 89 0.0 40.9 61.3#

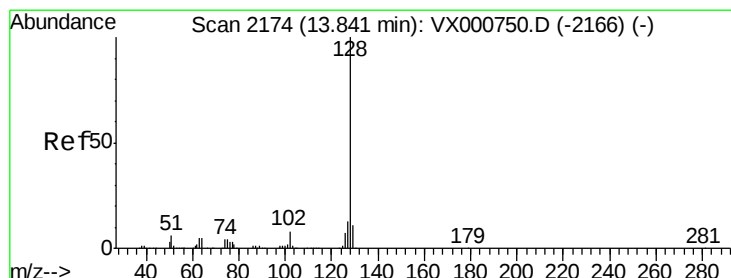
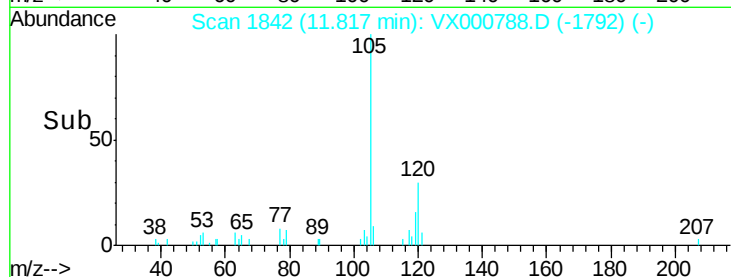
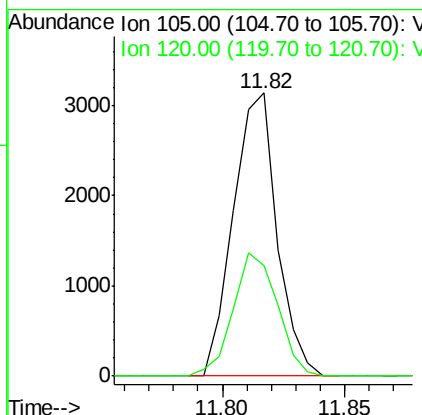
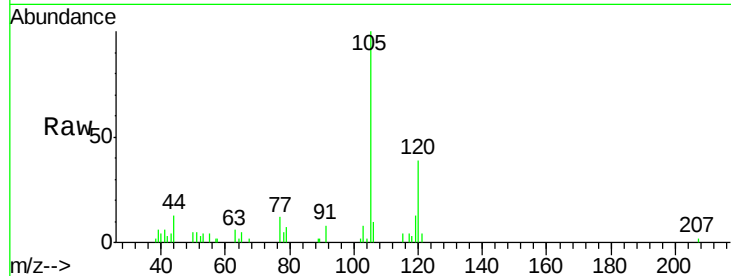




#84
 1,2,4-Trimethylbenzene
 Concen: 0.29 ug/l
 RT: 11.82 min Scan# 1842
 Delta R.T. 0.01 min
 Lab File: VX000788.D
 Acq: 11 Apr 2018 19:20

Instrument :
 MSVOA_X
 ClientSampleId :
 RT4235-RT3407

Tgt Ion:105 Resp: 3899
 Ion Ratio Lower Upper
 105 100
 120 44.1 23.1 69.3



#95
 Naphthalene
 Concen: 7.44 ug/l
 RT: 13.84 min Scan# 2174
 Delta R.T. -0.00 min
 Lab File: VX000788.D
 Acq: 11 Apr 2018 19:20

Tgt Ion:128 Resp: 131331
 Ion Ratio Lower Upper
 128 100
 127 13.2 10.4 15.6
 129 10.6 8.7 13.1

